

NATIONAL FORENSIC CONSULTANTS

Eugene Hough

Consultant – Monument Preservation/Restoration



HERITAGE GUILD WORKS

Eugene P. Hough

Executive Director – Monument Education, Preservation Field Specialist

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Summary

Mr. Hough has over 40 years of experience providing specialized techniques and services and physical and photographic analysis in the preservation, restoration, stabilization and cleaning of historic monuments, markers, statuary, mausoleums, churches and cemeteries, residences, tombstones, statuary, bridges, bridge plaques, mile markers and historic monuments along existing roadways. He provides demographic, municipal and open space planning to include land and stormwater management of cemeteries to cities, municipalities, boroughs, state and federal agencies. He utilizes ground-penetrating radar and other archeological services. He utilizes photographs which include aerial views, and he obtains documents and/or maps to assist existing municipal or organizations in better understanding their state roadways and significant sites along these arteries. He obtains documentation and assessment of historic road markers, bridges and bridge plaques, and also provides his services to clean, preserve, restore and stabilize sites of historic interest.

Mr. Hough implements customized restoration utilizing mortars and injection grouts which are designed to complement existing substrates made of sandstone, limestone, brownstone, marble, granite, slate, brick and terra cotta. As part of the restoration application process, he uses natural aggregates and dyes which are incorporated to closely match the natural texture and color of the existing stone or related surface are utilized. He also provides pointing of stone and brick and provides arbor care of said sites. He provides services for epitaphs and lettering by initiating various preservation and stabilization techniques to arrest and, in many cases, repair existing deterioration to the letter surfaces for tombstones, sarcophagi, stone plaques and markers. He fabricates molds for missing statuary appendages and reattaches features, such as wings, noses, hands and clothing or builds-up worn-down features with these restoration mortars of statuary and/or ornamental architectural structural features. He specializes in obtaining hard-to-find natural stone and old brick for repair and for use in new projects. Other preservation services include removal of moss, lichen, paint and other forms of graffiti with environmentally safe water-based agents.

Mr. Hough provides additional services for historical societies and land trust organizations meeting their individual and group needs (research, development, advocacy) to include outreach programs, lectures and slide presentations to various societies, clubs, rotaries, churches and school groups, incorporating living history portrayals of historic individuals while in period costume.

Registrations / Certifications

Authorized JAHN Installer - Cathedral Stone Products - Registration No. 0103101-PA (2001)

Education

Cathedral Stoneworks, Washington, D.C. - Certification in the Utilization of Jahn Preservation Masonry Products in the replication and repair of sandstone, marble, granite, slate, limestone and terracotta (2001)

Stockholm University International Graduate School, Stockholm, Sweden - One-year Diploma Program, Independent Study: long-term health care studies involving demographic comparisons of Pennsylvania, USA residents with Swedish populations; investigation of housing (lighting, ventilation, and interior design/living spaces) while utilizing existing historic structures, transportation systems, and retirement facility development linking population needs with current lifestyle demands and traditions. (1998)

Penn State University - Biology Studies concentrating in physical geology, hydrology and eco-system dynamics (1978)

George Peabody College at Vanderbilt University, Nashville, Tennessee - Bachelor of Science, Health and Special Education Certification K through 12 (1978-1981)

The George School, Newtown, Pennsylvania - Graduated College Preparatory (Senior Class President) (1974-1977)

Professional Experience

National Forensic Consultants, Inc.

2020 to Present

Consultant – Mr. Hough provides research and analysis for the location, preservation and restorative practices of monuments and markers comprised of a variety of materials.

Heritage Guild Works

1981 to Present

President – Mr. Hough provides a wide range of preservation, restoration, stabilization and cleaning services for historic monuments, markers, statuary, mausoleums and cemeteries. He provides educational outreach programs specifying the importance of preserving historical cemeteries and other sites which include monuments, plaques, markers, etc. Since 1981 Mr. Hough has been performing the ongoing preservation, intervention and repair of family tombstones, monuments and sarcophagi.

Selective List of Projects

2006 to Present

The National Society of Colonial Dames in the Commonwealth of Pennsylvania, Philadelphia, PA - Diversified restoration/preservation services to stonework and statuary in Marion Coffin Garden.

2005 Ongoing

St. Paul's Episcopal Church (1752) - Fort Cornwallis, Augusta, GA - Listed on United States National Historic Register. Preservation and documentation of Cemetery. Ongoing Project includes cleaning and stabilization of various monuments and tombstones. Utilization of ground-penetrating radar. Creation of Map and CAD Data Base of Cemetery grounds. Developing sprinkler and irrigation system for site without harming existing monuments and tombstones. Creating molds to cast urns missing from monument pedestals. Utilizing special mortars to fabricate architectural and anatomical features for sculptures. Create photo documentation. Orchestrate various public presentations concerning regional history and evolution of Savannah River region to educate church membership and local community.

The Merion Cricket Club, Haverford, PA (listed on PA Historic Register) - Assess, document and repair of various broken terra-cotta architectural features to include archway cornice piece, rosettes, and bull-nose trim. Match existing colors utilizing pigments with various restorative mortars. Repair, clean and wax various bronze and metal plaques. Cleaning of historic marble tablet. Application of poultices to extrude leaching of rust or copper residue in the stone. Sand, prime, and seal cast iron hasps and hangers. Photo documentation and report compilation.

2004

Axis Cemetery, Germantown, PA - Removed damaged bronze plaque for repair, Plaque dedicated by Daughters of the American Revolution to honor 50 soldiers of Revolutionary War killed during Battle of Germantown. Removed graffiti, straightened bent edges, repaired cracks, and exposed original bronze finish. Resurface rear wall space and affixed 2'x4' bronze plaque by way of stainless-steel pins.

Historic Goshen Bridge, Radnor, PA

Provided emergency photographic documentation of physical condition of Bridge structure. Provided alternative methods of repair to maintain historic characteristic of Bridge for Radnor Township and the Pennsylvania Department of Transportation.

2003-2004

Main Line Monument, Paoli, PA - Restored damaged five-foot tall Italian marble Madonna Statue with

cutting techniques as well as building material and design.

1998 Nairobi, Kenya - Designed and built memorial garden and wall for Kikuyu Hospital utilizing existing volcanic stone blocks - as volunteer mission work through Bryn Mawr and Wayne Presbyterian Churches.

1992 Copan, Honduras - Assisted in photographing and analysis of Mayan tombs and structures. Recorded stone building techniques of the Mayan race. Investigated population history/environmental conditions. Participated in preservation analysis of existing statues and monuments.

Affiliations

Association for Gravestone Studies
The National Preservation Trust
Philadelphia Landmarks Society
The Brandywine Conservancy, PA
The Union League of Philadelphia
Main Line Chamber of Commerce, PA
Augusta Genealogical Society, GA
Aiken Museum & Historical Society, SC
William Washington's 3rd Light Horse Calvary, SC
The Franklin Inn Club Literary Society, PA
PA Sons of the American Revolution
First Troop Philadelphia City Cavalry, Member-Horse Escort Platoon
Fourth Continental Light Dragoons - Cavalry
John Bartram Gardens Society, PA
Willistown Trust Conservancy, PA
Olde Towne Preservation Supporter, SC
The Bryn Mawr Presbyterian Church Older Adult Outreach Philadelphia Landmarks Society, Junior Board
and Mission work - prior involvement

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- 2003-2004 Main Line Monument, Paoli, PA
Restored damaged five-foot tall Italian marble Madonna Statue with Child. Re-affixed Child and Madonna heads, removed organic residue. Created molds for Child's left foot and Madonna's left hand, detailed replication of statue lower left base, reconstructed facial and hair features, and repaired robe fold details, all utilizing natural marble aggregate.
- 2003
to Present Breyer Mausoleum, West Laurel Hill Cemetery, Bala Cynwyd, PA listed on Historic Register
Preservation, restoration, and repair of the Breyer Ice Cream Family interment site to include cleaning and waxing of bronze doors, utilization of injection grouts to stop water from entering inner chamber through cracked seams between granite plates. Assessment of surrounding landscape and grading conditions in relation to drainage problems.
- 2002-2003 Union League, Philadelphia, PA (listed on Historic Register)
Emergency repairs to brownstone steps and supporting block structures. Removal of acrylic latex paint. Reformed and built up detailed surfaces on step ways and baluster structures. Researched and implemented dyes and aggregate to compliment existing brownstone conditions.
- 2001 St. Michaels Lutheran Church, Germantown, PA
Overview assessment and repair of vandalized and deteriorated tombstone heads and tablets; incorporated several epitaph cleanings on stone tablets. Utilized heavy-lift cranes for repositioning and setting of obelisk monuments.
- 2000 Holy Trinity Episcopal Church, Philadelphia, PA
Repaired and mended vandalized tombstone and pedestal monuments.
- 1999
To Present St. Peter's Episcopal Church, Philadelphia, PA (listed on Historic Register)
Emergency repair and setting of sarcophagi tombs, tablet tops and sides.
Utilizing stainless steel pins and bonding agents to secure the monuments.
Assessment, cleaning and repair of the sarcophagus of Samuel Johnston, Surgeon for General George Washington, Greenville, PA
- 1981
to Present Ongoing preservation, intervention and repair of family tombstones, monuments and sarcophagi,

HGW provides courtesy vouchers for site preservation/restoration assessments.

SPECIAL PROJECTS and STUDIES

Artery Works™, a branch of **HGW**, provides photographs which include aerial views and can also provide documents and/or maps to assist existing municipal or organizations in better understanding their state roadways and significant sites along these arteries. Artery Works can provide documentation and assessment of historic road markers, bridges and bridge plaques, and can also provide the services to clean/preserve/ restore/ and stabilize these and other sites of historic interest.

In conjunction with **Artery Works**, **HGW** assists and facilitates communication while providing services for historical societies and land trust organizations meeting their individual and group needs (research, development, advocacy) to include lectures and slide presentations to various societies, clubs, rotaries, churches and school groups, incorporating living history portrayals of historic individuals while in period costume.

Additional Special Projects (including research)

2004 Ardmore, Pennsylvania - Assisted local merchants and historical society in achieving their goal to prevent demolition of designated historic buildings.' Provided aerial photographs (obtained through Delaware Valley Regional Planning Commission) to merchants whose sites were in jeopardy, testified before local planning board meeting and cited reasons for more thorough investigation and emphasized the importance of including the merchants to be affected and the general public in the decision-making process. In addition, testified before Urban Land Institute, a non-profit advocacy group based in Washington, DC, on the merits of maintaining certain downtown spaces in Ardmore, in addition to speaking on areas concerning updating transportation sites, meeting changing demographics consumer needs, and the maintaining of the historical atmosphere of the downtown area while implementing progressive and alternative architectural spaces to satisfy all parties. Through 2004, the result of numerous efforts has prevented demolition of these sites.

2004 New England - Visited and spoke to various historical societies and historic sites, conducted complimentary cleaning of historic cemetery markers and advocated the importance of appropriate preservation practice at sites of historical significance. In addition, provided advisement and cleaning of a 17th century family marker on the Pequot Indian Reservation in Mystic, Connecticut, as well as met with tribal official to discuss ancient Indian trails, paths and burial sites.

2004 Augusta, Georgia (St. Paul's Church/Fort Cornwallis) and Aiken, South Carolina -- provided demonstration techniques in cleaning, preservation and stabilization of fragile 18th century monuments and markers of both stone and bronze. Highlighted the importance of numerous 18th century sites to officials at St. Paul's Episcopal Church in Augusta, Georgia and to church and historic representatives in Aiken, South Carolina.

2003 Versailles, France - Photographed and documented traditional masonry repairs to sandstone and limestone structures and monuments. Noted deterioration of bronze statuary due to acid rain and environmental conditions. Discussed and reviewed with preservation specialist at Versailles the utilization of installing small ventilation channels to base of buildings and support structures to alleviate humidity and disproportionate air gradients affecting stone surfaces on interior and exterior spaces.

2002 London, England - Photographed statuary and historic structures including military cemeteries

Preservation Practice

Heritage Guild Works takes pride in offering clients and organizations a **Preservation Voucher** which at no cost to the client provides an initial brief report on the physical condition of the site or marker requiring preservation restoration services. Should the client wish to proceed with a preservation plan of action, costs and services would then be outlined.

Normally the **Preservation Plan of Action** by HGW is carried out in two parts:

1) The first phase would be as thorough, written documentation of the site using existing deed and plot plan resources, if any, complimented by a photographic recording of each stone monument and marker. (Clients are encouraged to provide lineage papers, if any, and/or site documentation, if any, to assist with overall preservation project.) Should there be no such documentation available, further resources would be utilized to obtain the records. Documentation of this type allows for proof of authenticity of each historic site. Also, HGW has found that such documentation allows for beneficial reporting to clients and group membership regarding status of projects and related topics of interest in public forum settings should there be a desire for broader sharing of information.

2) The second phase would be the actual physical preservation process, the degree of which would be determined by the condition of each monument. Although too many to list here, HGW does utilize additional or supplemental techniques depending upon the nature of each individual project.

Please note: specific genealogical documentation is crucial to preservation projects. During any preservation/restoration project involving family internment sites, HGW encourages oral and written sharing of genealogical information that might heretofore be unknown by various generations. Information such as this might not have been brought forward and exchanged had a project of this nature not been initiated. The result of such a project is not only beneficial to the entire family but has consistently provided positive influences on family membership and relationships and has created a broader awareness of this type of work and its importance in the community at large.

Member of Association for Gravestone Studies



• Genealogy & Educational Programs • Archeological & Ground Penetrating Radar
• Landscape Restoration & Maintenance • Preservation Site Analysis
• Tombstone, Monument & Cemetery Preservation
Member: Association for Gravestone Studies
legacymarkerprogram.org

EDUCATION PRESERVATION STEWARDSHIP